

Request: Tan Delaval

Access DB# 169174

## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Sabaha Qayy Examiner #: 74141 Date: 8/10/03  
Art Unit: 1616 Phone Number: 20622 Serial Number: 10/502,527  
Mail Box and Bldg/Room Location: 4C70 Rm, 4445 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

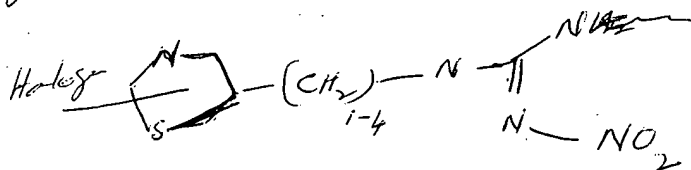
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Synergistic Insecticidal mixtures  
Inventors (please provide full names): Anderssch et al

Earliest Priority Filing Date: 1/31/02, 371

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search for Ch 9 - 16 drawn to synergistic composition of compd of formula 1



broad search

and one or more compounds selected from the gp as in cl 9.

Please see attached sheets  
Thank you

### STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>Tan</u>	NA Sequence (#) _____	STN <u>✓</u>
Searcher Phone #: <u>22504</u>	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) <u>✓</u>	Questel/Orbit _____
Date Searcher Picked Up: <u>8/15/03</u>	Bibliographic _____	Dr. Link _____
Date Completed: <u>8/15/03</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep: Review Time _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time: <u>15</u>	Patent Family _____	WWW/Internet _____
Online Time: <u>15</u>	Other _____	Other (specify) _____

=> fil reg

FILE 'REGISTRY' ENTERED AT 15:27:31 ON 15 AUG 2005  
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
 COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file  
 provided by InfoChem.

STRUCTURE FILE UPDATES: 14 AUG 2005 HIGHEST RN 860111-75-7  
 DICTIONARY FILE UPDATES: 14 AUG 2005 HIGHEST RN 860111-75-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when  
 conducting SmartSELECT searches.

```
*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005. A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*
*****
```

Structure search iteration limits have been increased. See HELP SLIMITS  
 for details.

Experimental and calculated property data are now available. For more  
 information enter HELP PROP at an arrow prompt in the file or refer  
 to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d sta que l6

L4 STR

```

      7
      N
      |
X~Hy~Ak~N~C~N~NO2
1  2  3  4  5  6  8
```

#### NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM  
 GGCAT IS MCY AT 2  
 DEFAULT ECLEVEL IS LIMITED  
 ECOUNT IS E3 C E1 N E1 S AT 2

#### GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 8

#### STEREO ATTRIBUTES: NONE

L6 234 SEA FILE=REGISTRY SSS FUL L4

100.0% PROCESSED 12315 ITERATIONS  
 SEARCH TIME: 00.00.01

234 ANSWERS

=> d his

(FILE 'HOME' ENTERED AT 15:12:23 ON 15 AUG 2005)  
SET COST OFF

FILE 'REGISTRY' ENTERED AT 15:12:33 ON 15 AUG 2005

L1 679489 S NCSC2/ES  
L2 STR  
L3 14 S L2 SAM SUB=L1  
L4 STR L2  
L5 15 S L4  
L6 234 S L4 FUL  
SAV L6 QAZI501/A  
DEL QAZI501/A  
SAV L6 QAZI502/A  
L7 5 S (ABAMECTIN OR EMAMECTIN OR EMAMECTIN BENZOATE OR METHIOCARB O  
E CYFLUTHRIN  
L8 25 S E3  
L9 0 S L6 AND L8  
SEL RN L7  
L10 403 S E1-E5/CRN  
L11 5 S L6 AND L10  
L12 119 S L6 AND C6H8CLN5O2S  
L13 6 S L12 AND 1/NC  
SEL RN 1 2 5  
L14 3 S L13 NOT E6-E8  
L15 1 S CLOTHIANIDIN/CN  
L16 54 S 210880-92-5/CRN  
L17 5 S L10 AND L16  
L18 5 S L11,L17

FILE 'HCAOLD' ENTERED AT 15:19:49 ON 15 AUG 2005

L19 0 S L18

FILE 'HCAPLUS' ENTERED AT 15:19:55 ON 15 AUG 2005

L20 2 S L18  
L21 3277 S ABAMECTIN? OR EMAMECTIN? OR EMAMECTIN? BENZOATE OR METHIOCARB  
L22 129 S CLOTHIANIDIN?  
L23 4222 S L7,L21  
L24 144 S L15,L22  
L25 39 S L23 AND L24  
L26 2 S L25 AND L20

FILE 'REGISTRY' ENTERED AT 15:22:30 ON 15 AUG 2005

L27 1 S 68359-37-5  
L28 111 S 68359-37-5/CRN  
L29 1 S L28 AND L16

FILE 'HCAOLD' ENTERED AT 15:23:22 ON 15 AUG 2005

L30 0 S L29

FILE 'HCAPLUS' ENTERED AT 15:23:23 ON 15 AUG 2005

L31 1 S L29  
L32 2 S L20,L31  
L33 4382 S L27 OR L23  
L34 39 S L24 AND L33  
L35 2 S L32 AND L34

L36                   E ANDERSCH W/AU  
                       78 S E3,E5  
                       E ERDELEN C/AU  
 L37                   310 S E3,E4,E7-E11  
                       E LUBOS ERDELEN A/AU  
                       E LUBOS A/AU  
                       E ERDELEN A/AU  
                       E JESCHKE P/AU  
 L38                   199 S E3,E4  
 L39                   1 S L36-L38 AND L35  
 L40                   1 S L36-L38 AND L34  
 L41                   2 S L35,L39,L40  
 L42                   37 S L34 NOT L41  
 L43                   22 S L42 AND (PY<=2002 OR PRY<=2002 OR AY<=2002)  
 L44                   19 S L42 AND (PD<=20020131 OR PRD<=20020131 OR AD<=20020131)

FILE 'USPATFULL' ENTERED AT 15:27:11 ON 15 AUG 2005

L45                   0 S L29 OR L18

FILE 'REGISTRY' ENTERED AT 15:27:31 ON 15 AUG 2005

=> s l18 or l29

L46                   6 L18 OR L29

=> d ide can tot

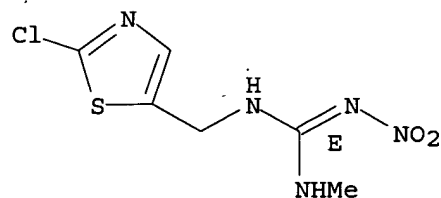
L46 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2005 ACS on STN  
 RN 569342-75-2 REGISTRY  
 ED Entered STN: 19 Aug 2003  
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,  
   cyano(4-fluoro-3-phenoxyphenyl)methyl ester, mixt. with  
   [C(E)]-N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitroguanidine (9CI)  
   (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C22 H18 Cl2 F N O3 . C6 H8 Cl N5 O2 S  
 CI MXS  
 SR CA  
 LC STN Files: CA, CAPLUS

CM 1

CRN 210880-92-5

CMF C6 H8 Cl N5 O2 S

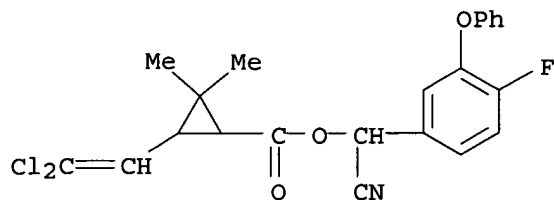
Double bond geometry as shown.



CM 2

CRN 68359-37-5

CMF C22 H18 Cl2 F N O3



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

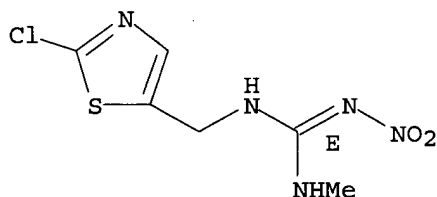
REFERENCE 1: 139:129421

L46 ANSWER 2 OF 6 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 569342-73-0 REGISTRY  
ED Entered STN: 19 Aug 2003  
CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-, [C(E)]-,  
mixt. with 3,5-dimethyl-4-(methylthio)phenyl methylcarbamate (9CI) (CA  
INDEX NAME)  
FS STEREOSEARCH  
MF C11 H15 N O2 S . C6 H8 Cl N5 O2 S  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS

CM 1

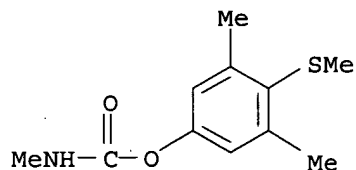
CRN 210880-92-5  
CMF C6 H8 Cl N5 O2 S

Double bond geometry as shown.



CM 2

CRN 2032-65-7  
CMF C11 H15 N O2 S



1 REFERENCES IN FILE CA (1907 TO DATE)

## 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

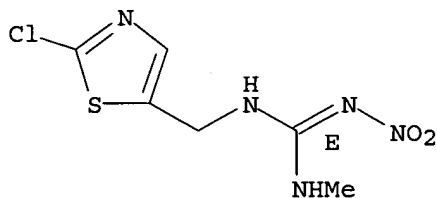
REFERENCE 1: 139:129421

L46 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 569342-71-8 REGISTRY  
ED Entered STN: 19 Aug 2003  
CN Avermectin B1, 4''-deoxy-4''-(methylamino)-, (4''R)-, benzoate (salt),  
mixt. with [C(E)]-N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-  
nitroguanidine (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C7 H6 O2 . C6 H8 Cl N5 O2 S . Unspecified  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS

CM 1

CRN 210880-92-5  
CMF C6 H8 Cl N5 O2 S

Double bond geometry as shown.



CM 2

CRN 155569-91-8  
CMF C7 H6 O2 . Unspecified

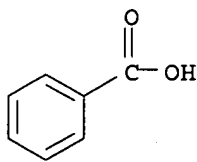
CM 3

CRN 119791-41-2  
CMF Unspecified  
CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 4

CRN 65-85-0  
CMF C7 H6 O2



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

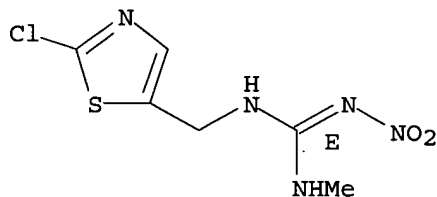
REFERENCE 1: 139:129421

L46 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 569342-69-4 REGISTRY  
ED Entered STN: 19 Aug 2003  
CN Avermectin B1, 4''-deoxy-4''-(methylamino)-, (4''R)-, mixt. with  
[C(E)]-N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitroguanidine (9CI)  
(CA INDEX NAME)  
FS STEREOSEARCH  
MF C6 H8 Cl N5 O2 S . Unspecified  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS

CM 1

CRN 210880-92-5  
CMF C6 H8 Cl N5 O2 S

Double bond geometry as shown.



CM 2

CRN 119791-41-2  
CMF Unspecified  
CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:129421

L46 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 569342-67-2 REGISTRY  
ED Entered STN: 19 Aug 2003  
CN Avermectin B1, mixt. with [C(E)]-N-[(2-chloro-5-thiazolyl)methyl]-N'-  
methyl-N''-nitroguanidine (9CI) (CA INDEX NAME)

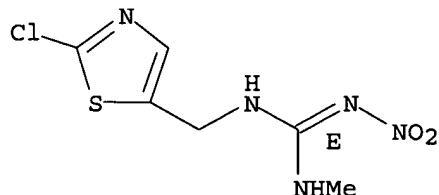
OTHER NAMES:

CN Clothianidin-abamectin mixt.  
FS STEREOSEARCH  
MF C6 H8 Cl N5 O2 S . Unspecified  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS

CM 1

CRN 210880-92-5  
CMF C6 H8 Cl N5 O2 S

Double bond geometry as shown.



CM 2

CRN 71751-41-2  
CMF Unspecified  
CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:129421

L46 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2005 ACS on STN

RN 411221-42-6 REGISTRY

ED Entered STN: 06 May 2002

CN Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-2,2-dimethyl-, (R)-cyano(3-phenoxyphenyl)methyl ester, (1S,3S)-rel-, mixt. with [C(E)]-N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitroguanidine (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Lambda-cyhalothrin-clothianidin mixt.

FS STEREOSEARCH

MF C23 H19 Cl F3 N O3 . C6 H8 Cl N5 O2 S

CI MXS

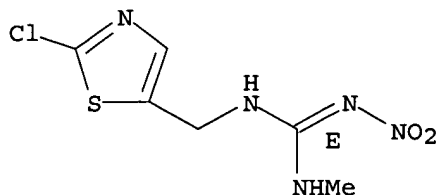
SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

CM 1

CRN 210880-92-5  
CMF C6 H8 Cl N5 O2 S

Double bond geometry as shown.



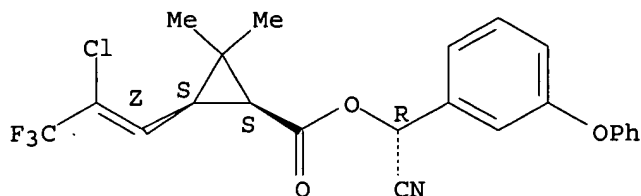


CM 2

CRN 91465-08-6

CMF C23 H19 Cl F3 N O3

Relative stereochemistry.  
Double bond geometry as shown.



2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:129421

REFERENCE 2: 136:305547

=&gt; fil hcaplus

FILE 'HCAPLUS' ENTERED AT 15:28:01 ON 15 AUG 2005

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FILE COVERS 1907 - 15 Aug 2005 VOL 143 ISS 8

FILE LAST UPDATED: 14 Aug 2005 (20050814/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=&gt; d l41 all hitstr tot

L41 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2003:610145 HCAPLUS

DN 139:129421

ED Entered STN: 08 Aug 2003

TI Synergistic insecticidal mixtures

IN **Andersch, Wolfram; Erdelen, Christoph; Jeschke, Peter**

PA Bayer CropScience AG, Germany

jan delaval - 15 august 2005

SO PCT Int. Appl., 77 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 IC ICM A01N051-00  
 ICS A01N053-00; A01N043-90; A01N053-08; A01N047-22  
 CC 5-4 (Agrochemical Bioregulators)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003063592	A1	20030807	WO 2003-EP478	20030120
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10203688	A1	20030807	DE 2002-10203688	20020131
	CA 2474086	AA	20030807	CA 2003-2474086	20030120
	EP 1473997	A1	20041110	EP 2003-701526	20030120
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	BR 2003007356	A	20041214	BR 2003-7356	20030120
PRAI	DE 2002-10203688	A	20020131		
	WO 2003-EP478	W	20030120		

## CLASS

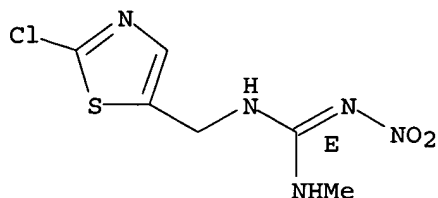
PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2003063592	ICM	A01N051-00
	ICS	A01N053-00; A01N043-90; A01N053-08; A01N047-22
WO 2003063592	ECLA	A01N051/00+M
DE 10203688	ECLA	A01N051/00+M
AB	Synergistic insecticidal mixts. contain <b>clothianidin</b> and <b>abamectin</b> , <b>emamectin</b> or <b>emamectin benzoate</b> , <b>methiocarb</b> , $\beta$ - <b>cyfluthrin</b> or $\lambda$ - <b>cyhalothrin</b> .	
ST	synergism insecticide <b>clothianidin</b> mixt	
IT	Insecticides (synergistic; compns. containing <b>clothianidin</b> )	
IT	<b>210880-92-5D, Clothianidin</b> , mixts. containing <b>411221-42-6 569342-67-2, Clothianidin-abamectin</b> mixture <b>569342-69-4 569342-71-8 569342-73-0 569342-75-2</b>	
	RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic insecticidal composition)	

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 RE

(1) Astrid, M; WO 0030440 A 2000  
 (2) Takeda Chemical Industries Ltd; EP 1149532 A 2001 HCAPLUS  
 IT **210880-92-5D, Clothianidin**, mixts. containing **411221-42-6 569342-67-2, Clothianidin-abamectin** mixture **569342-69-4 569342-71-8 569342-73-0 569342-75-2**  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic insecticidal composition)  
 RN **210880-92-5 HCAPLUS**

CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-, [C(E)]-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 411221-42-6 HCAPLUS

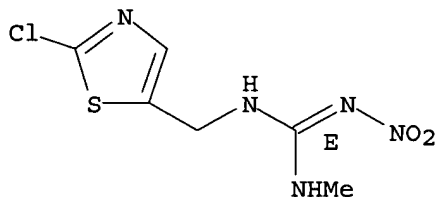
CN Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-2,2-dimethyl-, (R)-cyano(3-phenoxyphenyl)methyl ester, (1S,3S)-rel-, mixt. with [C(E)]-N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitroguanidine (9CI) (CA INDEX NAME)

CM 1

CRN 210880-92-5

CMF C6 H8 Cl N5 O2 S

Double bond geometry as shown.



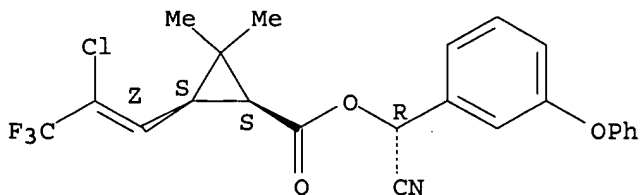
CM 2

CRN 91465-08-6

CMF C23 H19 Cl F3 N O3

Relative stereochemistry.

Double bond geometry as shown.



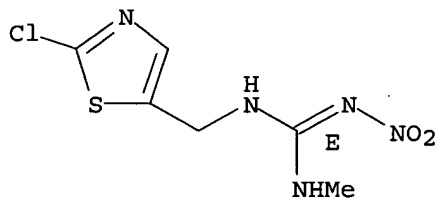
RN 569342-67-2 HCAPLUS

CN Avermectin B1, mixt. with [C(E)]-N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitroguanidine (9CI) (CA INDEX NAME)

CM 1

CRN 210880-92-5  
CMF C6 H8 Cl N5 O2 S

Double bond geometry as shown.



CM 2

CRN 71751-41-2  
CMF Unspecified  
CCI MAN

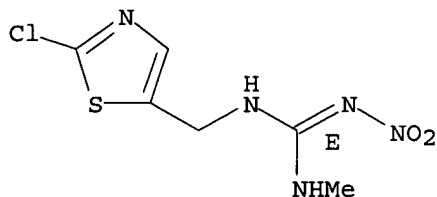
\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 569342-69-4 HCAPLUS  
CN Avermectin B1, 4''-deoxy-4''-(methylamino)-, (4''R)-, mixt. with  
[C(E)]-N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitroguanidine (9CI)  
(CA INDEX NAME)

CM 1

CRN 210880-92-5  
CMF C6 H8 Cl N5 O2 S

Double bond geometry as shown.



CM 2

CRN 119791-41-2  
CMF Unspecified  
CCI MAN

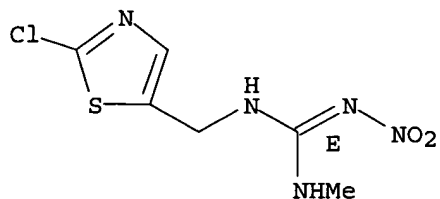
\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 569342-71-8 HCAPLUS  
CN Avermectin B1, 4''-deoxy-4''-(methylamino)-, (4''R)-, benzoate (salt),  
mixt. with [C(E)]-N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-  
nitroguanidine (9CI) (CA INDEX NAME)

CM 1

CRN 210880-92-5  
CMF C6 H8 Cl N5 O2 S

Double bond geometry as shown.



CM 2

CRN 155569-91-8

CMF C7 H6 O2 . Unspecified

CM 3

CRN 119791-41-2

CMF Unspecified

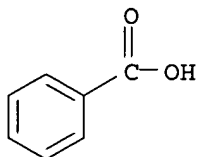
CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 4

CRN 65-85-0

CMF C7 H6 O2



RN 569342-73-0 HCAPLUS

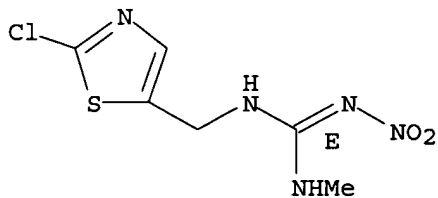
CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-, [C(E)]-,  
mixt. with 3,5-dimethyl-4-(methylthio)phenyl methylcarbamate (9CI) (CA  
INDEX NAME)

CM 1

CRN 210880-92-5

CMF C6 H8 Cl N5 O2 S

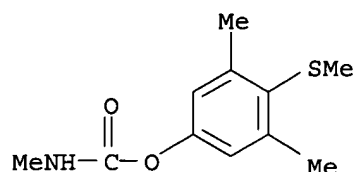
Double bond geometry as shown.



CM 2

CRN 2032-65-7

CMF C11 H15 N O2 S



RN 569342-75-2 HCAPLUS

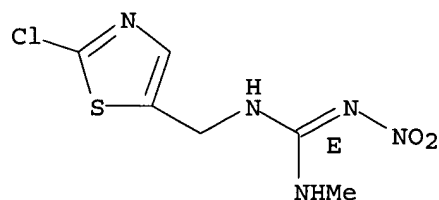
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,  
 cyano(4-fluoro-3-phenoxyphenyl)methyl ester, mixt. with  
 [C(E)]-N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitroguanidine (9CI)  
 (CA INDEX NAME)

CM 1

CRN 210880-92-5

CMF C6 H8 Cl N5 O2 S

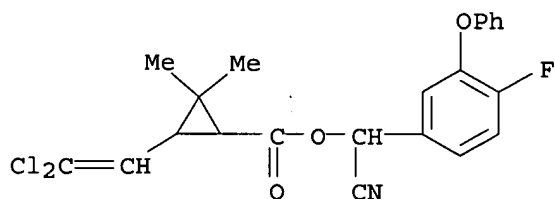
Double bond geometry as shown.



CM 2

CRN 68359-37-5

CMF C22 H18 Cl2 F N O3



L41 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:293368 HCAPLUS

DN 136:305547

ED Entered STN: 19 Apr 2002

TI Seed treatment with combinations of pyrethrins/pyrethroids and

**clothianidin**

IN Asrar, Jawed; Kohn, Frank C.  
 PA Monsanto Technology, LLC, USA  
 SO PCT Int. Appl., 37 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM A01N053-00  
 ICS A01N053-00; A01N051-00  
 CC 5-4 (Agrochemical Bioregulators)  
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002030202	A2	20020418	WO 2001-US30780	20011002
	WO 2002030202	A3	20020620		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2002115564	A1	20020822	US 2001-968117	20011001
	US 6838473	B2	20050104		
	CA 2424018	AA	20020418	CA 2001-2424018	20011002
	AU 2001096476	A5	20020422	AU 2001-96476	20011002
	EP 1322163	A2	20030702	EP 2001-977350	20011002
	EP 1322163	B1	20050330		
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2004522699	T2	20040729	JP 2002-533655	20011002
	AT 291845	E	20050415	AT 2001-977350	20011002
	ZA 2003002165	A	20040628	ZA 2003-2165	20030318
	ZA 2003002562	A	20040707	ZA 2003-2562	20030401
	ZA 2003002631	A	20040705	ZA 2003-2631	20030403
	US 2005124492	A1	20050609	US 2005-28782	20050104
PRAI	US 2000-238485P	P	20001006		
	US 2001-968117	A	20011001		
	WO 2001-US30780	W	20011002		

**CLASS**

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	WO 2002030202	ICM	A01N053-00
		ICS	A01N053-00; A01N051-00
	WO 2002030202	ECLA	A01N051/00+M; A01N053/00+M
	US 2002115564	NCL	504/100.000
		ECLA	A01N051/00+M; A01N053/00+M
	JP 2004522699	FTERM	2B030/AA02; 2B030/AB03; 2B030/AD05; 2B030/CA14; 2B051/AB01; 2B051/BA09; 2B051/BB01; 2B051/BB14; 2B051/BB20; 2B121/AA11; 2B121/CC02; 2B121/CC21; 2B121/EA26; 2B121/FA13; 4H011/AC01; 4H011/BA06; 4H011/BB06; 4H011/BB11; 4H011/BB15; 4H011/DD03; 4H011/DF01; 4H011/DF04
	US 2005124492	NCL	504/100.000
		ECLA	A01N051/00+M; A01N053/00+M
AB	A method of preventing damage to the seed and/or shoots and foliage of a plant by a pest includes treating the seed from which the plant grows with a composition that includes a combination of <b>clothianidin</b> and at		

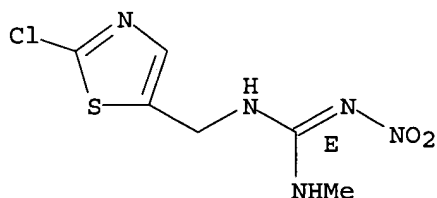
least one pyrethrin or synthetic pyrethroid. The treatment is applied to the unsown seed. In another embodiment, the seed is a transgenic seed having at least one heterologous gene encoding for the expression of a protein having pesticidal activity against a first pest and the composition has activity against at least one second pest. Treated seeds are also provided.

- ST pyrethrin pyrethroid **clothianidin** insecticide seed; transgenic seed endotoxin Cry3Bb Ostrinia corn
- IT Seed
  - (compns. containing pyrethrins/pyrethroids and **clothianidin** for treatment of)
- IT Avena sativa
  - Beta vulgaris saccharifera
  - Brassica napus
  - Glycine max
  - Gossypium hirsutum
  - Helianthus annuus
  - Hordeum vulgare
  - Lycopersicon esculentum
  - Nicotiana tabacum
  - Oryza sativa
  - Saccharum officinarum
  - Secale cereale
  - Sorghum bicolor
  - Triticum aestivum
  - Zea mays
  - (compns. containing pyrethrins/pyrethroids and **clothianidin** for treatment of seeds of)
- IT Transformation, genetic
  - (compns. containing pyrethrins/pyrethroids and **clothianidin** for treatment of transgenic seed)
- IT Ostrinia nubilalis
  - (compns. containing pyrethrins/pyrethroids and **clothianidin** for treatment of transgenic seed encoding protein active against)
- IT Gene, microbial
  - RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
  - (compns. containing pyrethrins/pyrethroids and **clothianidin** for treatment of transgenic seed having)
- IT Bacillus (bacterium genus)
  - Bacillus thuringiensis
  - Gliocladium
  - Glomus
  - Mycorrhizal fungi
  - Pseudomonas
  - Rhizobium
  - Serratia
  - Trichoderma
  - (compns. containing pyrethrins/pyrethroids and **clothianidin** for treatment of transgenic seed having gene derived from)
- IT Toxins
  - RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
  - (insecticidal; compns. containing pyrethrins/pyrethroids and **clothianidin** for treatment of transgenic seed having gene encoding)
- IT Pyrethrins
  - RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
  - (mixts. with **clothianidin**; seed treatment compns. containing)



- IT Pyrethrins  
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
(pyrethroids, mixts. with **clothianidin**; seed treatment compns. containing)
- IT Insecticides  
(seed treatment with combinations of pyrethrins/pyrethroids and **clothianidin**)
- IT Toxins  
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
( $\delta$ -endotoxins, Cry3Bb; compns. containing pyrethrins/pyrethroids and **clothianidin** for treatment of transgenic seed having gene encoding)
- IT 210880-92-5D, **Clothianidin**, mixture with pyrethrins and/or pyrethroids 411221-29-9, Tau-fluvalinate-**clothianidin** mixture 411221-30-2, Flumethrin-**clothianidin** mixture 411221-31-3 411221-32-4, Kadethrin-**clothianidin** mixture 411221-33-5, Bioresmethrin-**clothianidin** mixture 411221-34-6, Tetramethrin-**clothianidin** mixture 411221-35-7, Phenothrin-**clothianidin** mixture 411221-36-8, Empenthrin-**clothianidin** mixture 411221-37-9, Cyphenothrin-**clothianidin** mixture 411221-38-0, Prallethrin-**clothianidin** mixture 411221-39-1, Imiprothrin-**clothianidin** mixture 411221-40-4, Allethrin-**clothianidin** mixture 411221-41-5, Tefluthrin-**clothianidin** mixture 411221-42-6, **Lambda-cyhalothrin-clothianidin** mixture  
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
(seed treatment compns. containing)
- IT 210880-92-5D, **Clothianidin**, mixture with pyrethrins and/or pyrethroids 411221-42-6, **Lambda-cyhalothrin-clothianidin** mixture  
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
(seed treatment compns. containing)
- RN 210880-92-5 HCAPLUS
- CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-, [C(E)]-(9CI) (CA INDEX NAME)

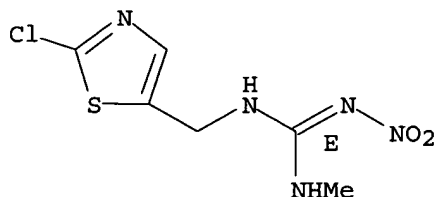
Double bond geometry as shown.



- RN 411221-42-6 HCAPLUS
- CN Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-2,2-dimethyl-, (R)-cyano(3-phenoxyphenyl)methyl ester, (1S,3S)-rel-, mixt. with [C(E)]-N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitroguanidine (9CI) (CA INDEX NAME)
- CM 1
- CRN 210880-92-5

CMF C6 H8 Cl N5 O2 S

Double bond geometry as shown.



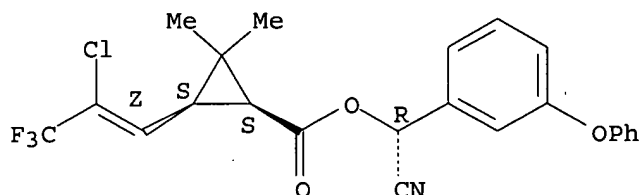
CM 2

CRN 91465-08-6

CMF C23 H19 Cl F3 N O3

Relative stereochemistry.

Double bond geometry as shown.



=&gt; =&gt; d l44 bib abs hitstr retable tot

L44 ANSWER 1 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:500834 HCAPLUS

DN 141:135717

TI Compound pesticide containing N-(1-nitrile-1,2-dimethylpropyl)-2-(2,4-dichloro-3-methyl-phenoxy)-propionamide

IN Ma, Yunsheng; Hu, Naidong; Shi, Qingling

PA Xu, Boyong, Peop. Rep. China; Men, Zhen

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 15 pp.

CODEN: CNXXEV

DT Patent

LA Chinese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1399885	A	20030305	CN 2001-123752	20010731 <--
PRAI	CN 2001-123752		20010731	<--	
AB	The title compound pesticide comprises N-(1-nitrile-1,2-dimethylpropyl)-2-(2,4-dichloro-3-methyl-phenoxy)-propionamide, fungicide, insect growth regulator, biol. source, nereistoxin, organophosphorus pesticide, pyrethrin and/or other insecticides. The pesticide also contains emulsifier, solvent, adjuvant, filler, and surfactant. The fungicide is from carpropamid, jinggangmycin, bismethiazol, sodium dichloroisocyanurate, trichloroisocyanuric acid, bromochloro s-Triazine-2,4,6(1H,3H,5H)-trione, oxolinic acid, kresoxim-Me, pencycuron, flutolanil, prochloraz, pefurazoate, and ferimzone. The insect growth				

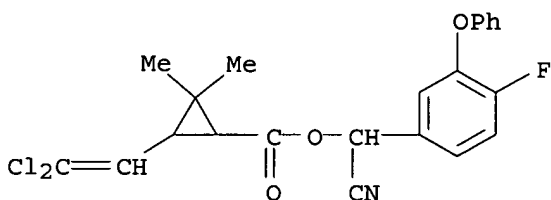
regulator is from chlorobenzuron, RH-5849, chlorfluazuron, triflumuron, teflubenzuron, hexaflumuron, diflubenzuron, flucyclohexuron, chromafenozide, flufenoxuron, methoxyfenozide, tebufenozide; the biol. source from *Bacillus thuringiensis*, **abamectin**, **emamectin benzoate**; the nereistoxin from monosultap or bisultap; the organophosphorus pesticide from phoxim, triazophos, chlorpyrifos, trichlorfon, isocarbophos, malathion, pyraclofos; the pyrethrin from deltamethrin, fenvalerate, **cyfluthrin**, **lambda-cyhalothrin**, cypermethrin, etofenprox; and other insecticide from chlorfenapyr, imidacloprid, fipronil, buprofezin, cartap, acetamiprid, nitenpyram, dinotefuran, thiamethoxam, thiacloprid, or **clothianidin**. The compound can be prepared into particles, microemulsion, water aqua, emulsified oil, solution, release agent, suspension agent, soluble powder, etc.

IT 68359-37-5, **Cyfluthrin** 71751-41-2,  
**Abamectin** 91465-08-6 155569-91-8,  
**Emamectin benzoate** 210880-92-5,  
**Clothianidin**

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (compound pesticide containing N-(1-nitrile-1,2-dimethylpropyl)-2-(2,4-dichloro-3-Me-phenoxy)-propionamide)

RN 68359-37-5 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano(4-fluoro-3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



RN 71751-41-2 HCAPLUS

CN Avermectin B1 (9CI) (CA INDEX NAME)

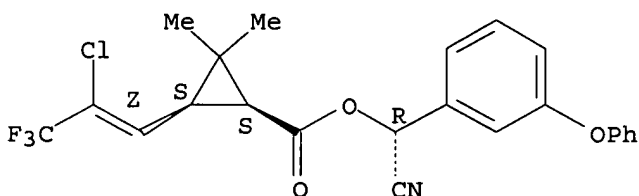
\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 91465-08-6 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-2,2-dimethyl-, (R)-cyano(3-phenoxyphenyl)methyl ester, (1S,3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

Double bond geometry as shown.



RN 155569-91-8 HCAPLUS

CN Avermectin B1, 4''-deoxy-4''-(methylamino)-, (4''R)-, benzoate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 119791-41-2

CMF Unspecified

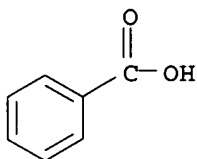
CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

CRN 65-85-0

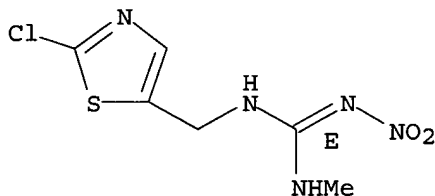
CMF C7 H6 O2



RN 210880-92-5 HCAPLUS

CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-, [C(E)]-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



L44 ANSWER 2 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:500826 HCAPLUS

DN 141:135701

TI Fenoxanil-containing compound insecticide

IN Ma, Yunsheng; Hu, Naidong; Shi, Qingling

PA Xu, Boyong, Peop. China; Xu, Xu; Lu, Hongmei

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 14 pp.

CODEN: CNXXEV

DT Patent

LA Chinese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1399877	A	20030305	CN 2001-123749	20010731 <--
PRAI	CN 2001-123749		20010731	<--	
AB	The title compound contains fenoxanil, insect growth regulator, biol. source, nereistoxin, organophosphorus pesticide, pyrethrin and/or other insecticides. The compound also contains emulsifier, solvent, adjuvant, filler, and surfactant. The insect growth regulator is from chlorobenzuron, RH-5849, chlorfluazuron, triflumuron, teflubenzuron, hexaflumuron, diflubenzuron, flucycloxaduron, chromafenozide, flufenoxuron, methoxyfenozide, tebufenozide; the biol. source from Bacillus				

thuringiensis, **abamectin**, **emamectin benzoate**  
 ; the nereistoxin from monosultap or bisultap; the organophosphorus  
 pesticide from phoxim, triazophos, chlorpyrifos, trichlorphon,  
 isocarbophos, malathion, pyraclofos; the pyrethrin from deltamethrin,  
 fenvalerate, **cyfluthrin**, **lambda-cyhalothrin**,  
 cypermethrin, etofenprox; and other insecticide from chlorfenapyr,  
 imidacloprid, fipronil, buprofezin, cartap, acetamiprid, nitenpyram,  
 dinotefuran, thiamethoxam, thiacloprid, or **clothianidin**. The  
 compound can be prepared into particles, microemulsion, water aqua, emulsified  
 oil, solution, release agent, suspension agent, soluble powder, etc.

IT 68359-37-5, **Cyfluthrin** 71751-41-2,

**Abamectin** 91465-08-6 155569-91-8,

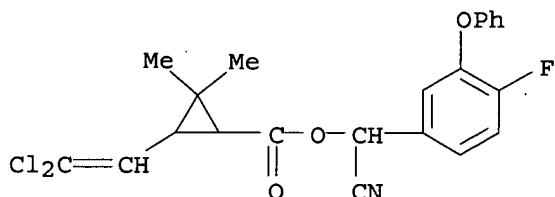
**Emamectin benzoate** 210880-92-5,

**Clothianidin**

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (fenoxanil-containing compound insecticide)

RN 68359-37-5 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,  
 cyano(4-fluoro-3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



RN 71751-41-2 HCAPLUS

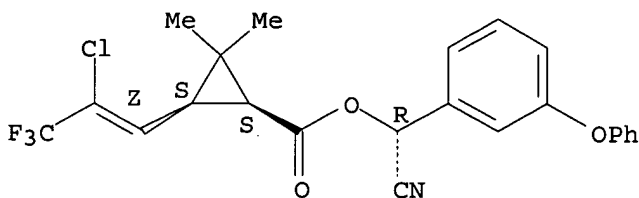
CN Avermectin B1 (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 91465-08-6 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-  
 2,2-dimethyl-, (R)-cyano(3-phenoxyphenyl)methyl ester, (1S,3S)-rel- (9CI)  
 (CA INDEX NAME)

Relative stereochemistry.  
 Double bond geometry as shown.



RN 155569-91-8 HCAPLUS

CN Avermectin B1, 4''-deoxy-4''-(methylamino)-, (4''R)-, benzoate (salt)  
 (9CI) (CA INDEX NAME)

CM 1

CRN 119791-41-2

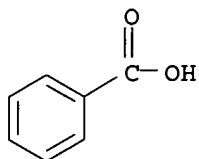
CMF Unspecified

CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

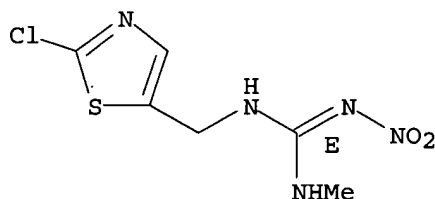
CM 2

CRN 65-85-0  
CMF C7 H6 O2



RN 210880-92-5 HCAPLUS  
CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-, [C(E)]-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



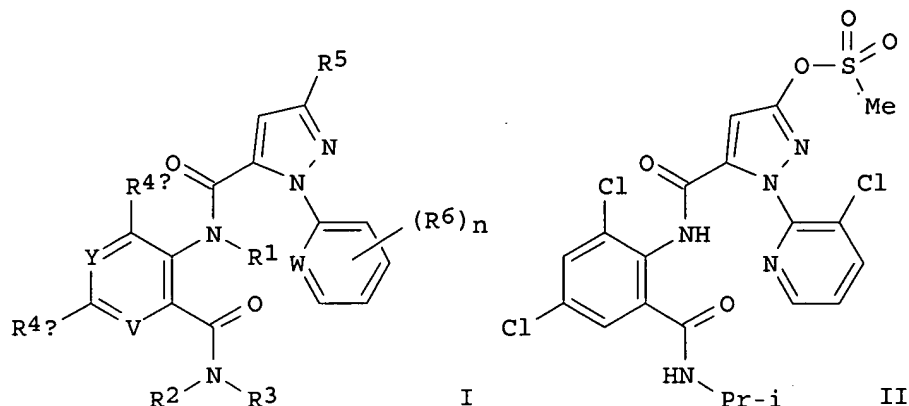
L44 ANSWER 3 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN  
AN 2004:453202 HCAPLUS  
DN 141:23526  
TI Novel pyrazole-based anthranilamide insecticides and their preparation, compositions, and use  
IN Hughes, Kenneth Andrew; Lahm, George Philip; Selby, Thomas Paul  
PA E.I. Du Pont De Nemours and Company, USA  
SO PCT Int. Appl., 96 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004046129	A2	20040603	WO 2003-US36167	20031112
	WO 2004046129	A3	20040715		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	CA 2464707	AA	20030509	CA 2002-2464707	20021112 <--

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EP 1560820          A2      20050810      EP 2003-786682      20031112
R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
    IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
PRAI US 2002-426693P      P      20021115
    US 2001-344507P      P      20011109      <--
    WO 2003-US36167      W      20031112
OS  MARPAT 141:23526
GI

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AB The invention provides title compds. I and their N-oxides and suitable salts [wherein: Y, V = N or CR4a; W = N, CH, or CR6; R1 = H, (un)substituted alkyl, alkenyl, alkynyl or cycloalkyl, alkylcarbonyl, alkoxy carbonyl, (di)alkylaminocarbonyl; R2 = H, alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy, (di)alkylamino, cycloalkylamino, alkoxy carbonyl, or alkylcarbonyl; R3 = H, G, (un)substituted alkyl, alkenyl, alkynyl or cycloalkyl; or NR2R3 = (un)substituted heterocyclic (N/O/S) ring; G = (un)substituted 5- or 6-membered non-aromatic carbo- or heterocyclic ring; R4a, R4b = H, various carbon and heteroat. substituents; R5 = alk(en/yn)yl, various derivs. of OH, SH, and NH2; R6 = (halo)alk(en/yn)yl, OH and derivs. or thio analogs, halo, cyano, CO2H, (di)alkylamino, (un)substituted Ph, PhCH2, PhCO, PhO, etc.; n = 0-4]. The invention also pertains to compns. for controlling invertebrate pests, comprising a biol. effective amount of I, their N-oxides, or their agronomically or nonagronomically suitable salts, and at least one addnl. component selected from surfactants, solid diluents, and liquid diluents, and optionally further comprising an effective amount of at least one addnl. biol. active compound or agent. Also disclosed are methods for controlling invertebrate pests by contact of the pests or their environment with said compds. Eighteen compds. I were prepared and tested. For instance, 3-chloro-2-hydrazinopyridine was cyclocondensed with di-Et maleate to give 55% Et 1-(3-chloro-2-pyridinyl)-3-pyrazolidinone-5-carboxylate, which was oxidized to a dihydropyrazolone, saponified to an acid, cyclized with dichloroanthranilic acid to give a benzoxazinone, O-mesylated at the pyrazolone, and ring-opened with MeNH2, to give invention compound II. In a test of larval *Plutella xylostella* on radish plants, II at 50 ppm (spray) reduced feeding damage by 80% or more. Compds. I were also effective against *Spodoptera frugiperda*, *Myzus persicae*, and *Empoasca fabae*.

IT 68359-37-5, Cyfluthrin 71751-41-2, Abamectin 119791-41-2, Emamectin

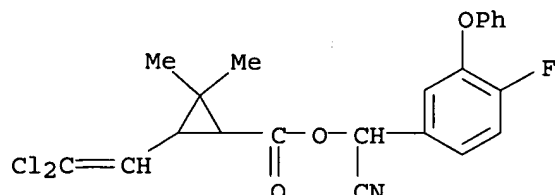
**210880-92-5, Clothianidin**

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(insecticidal compns. also containing; preparation of novel pyrazole-based anthranilamide insecticides)

RN 68359-37-5 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano(4-fluoro-3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



RN 71751-41-2 HCAPLUS

CN Avermectin B1 (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 119791-41-2 HCAPLUS

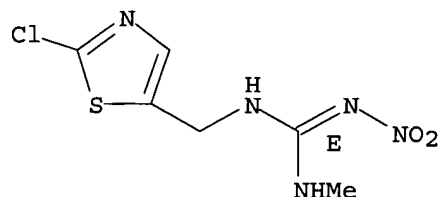
CN Avermectin B1, 4''-deoxy-4''-(methylamino)-, (4''R)- (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 210880-92-5 HCAPLUS

CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-, [C(E)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L44 ANSWER 4 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2003:836400 HCAPLUS

DN 139:318718

TI Fiber-supported pesticidal compositions

IN Hoffmann, Michael P.; Gardner, Jeffrey; Curtis, Paul D.

PA USA

SO U.S. Pat. Appl. Publ., 41 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003198659	A1	20031023	US 2002-281088	20021025 <--
PRAI	US 2001-345349P	P	20011025	<--	
AB	The invention provides fibrous pest deterrents that combine the useful properties of a phys. barrier in the form of a nonwoven fibrous matrix				



with a chemical deterrent such as a pesticide, behavior-modifying compound or a pest repellent. The use of such fibrous pest deterrents protects plants, animals and structures in both agricultural and nonagricultural settings from damage inflicted by pests. Unlike traditional pesticides, the behavior-modifying compound, pesticide or chemical deterrent of the invention is adsorbed or attached to a fibrous matrix, and so it is not so readily dispersed into the environment. Hence, use of the fibrous pest deterrents can reduce the levels of pesticides that inadvertently contaminate nontarget areas and pollute water supplies.

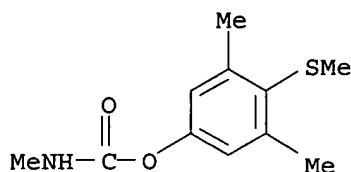
IT 2032-65-7, **Methiocarb**

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(bird repellent; fiber-supported pest-behavior-modifying composition)

RN 2032-65-7 HCAPLUS

CN Phenol, 3,5-dimethyl-4-(methylthio)-, methylcarbamate (9CI) (CA INDEX NAME)



IT 68359-37-5, Betacyfluthrin 71751-41-2, **Abamectin**

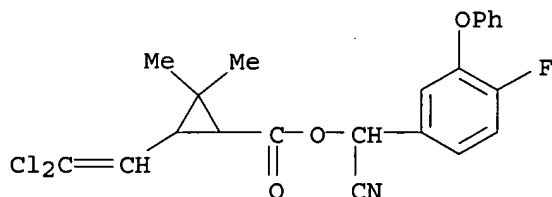
119791-41-2, **Emamectin** 210880-92-5, **Clothianidin**

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(fiber-supported pesticidal composition)

RN 68359-37-5 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano(4-fluoro-3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



RN 71751-41-2 HCAPLUS

CN Avermectin B1 (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 119791-41-2 HCAPLUS

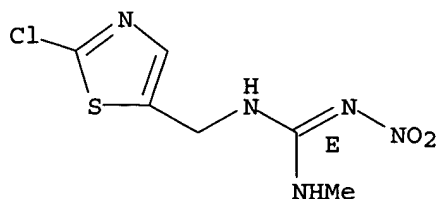
CN Avermectin B1, 4'''-deoxy-4'''-(methylamino)-, (4'''R)- (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 210880-92-5 HCAPLUS

CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-, [C(E)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L44 ANSWER 5 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2003:490949 HCAPLUS  
 DN 139:48648  
 TI Microencapsulated insecticide and ectoparasiticide delivery system  
 IN Gimeno, Miguel; Gimeno, Barbara  
 PA Mars Incorporated, USA  
 SO PCT Int. Appl., 26 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003051116	A1	20030626	WO 2002-IB5766	20021216 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	GB 2001-29976	A	20011214 <--		

AB The invention provides a microencapsulated insecticide which is prepared by oil-in-water interfacial polymerization, wherein the insecticide is solid at room

temperature and pressure and has limited solubility in organic solvents.

Systems for

delivering the microencapsulated insecticide to a companion animal, such as collars, are also described. A preferred delivery system is an organic dispersion of the microencapsulated insecticide, wherein an oil-in-water-in-oil emulsion is prepared by emulsifying the product of the interfacial oil-in-water polymerization in a continuous organic phase. Thus, a delivery system comprises microencapsulated deltamethrin, a combination of Span 65 and Atlox LP6:LP1 as emulsifier, and Arlamol E running oil.

IT 2032-65-7, **Methiocarb 68359-37-5**,

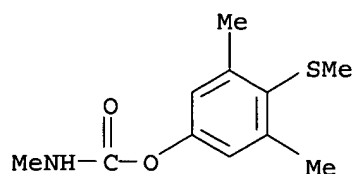
Betacyfluthrin 91465-08-6,  $\lambda$  -

**Cyhalothrin 210880-92-5, Clothianidin**

RL: AGR (Agricultural use); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (microencapsulated insecticide)

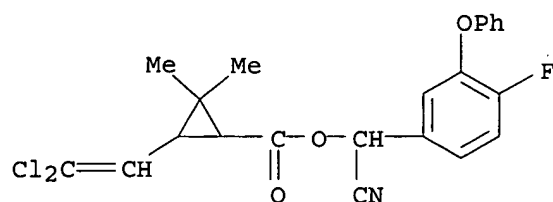
RN 2032-65-7 HCAPLUS

CN Phenol, 3,5-dimethyl-4-(methylthio)-, methylcarbamate (9CI) (CA INDEX NAME)



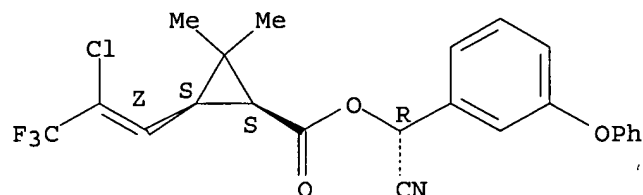
RN 68359-37-5 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano(4-fluoro-3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



RN 91465-08-6 HCAPLUS

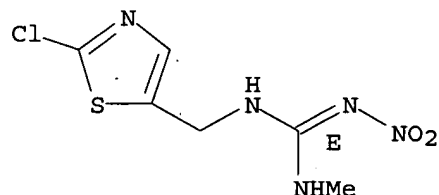
CN Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-2,2-dimethyl-, (R)-cyano(3-phenoxyphenyl)methyl ester, (1S,3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.  
Double bond geometry as shown.

RN 210880-92-5 HCAPLUS

CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-, [C(E)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



## RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Bayer Ag	1997			DE 19530076 A	HCAPLUS



AB Title compds. [I; R1, R2 = H, alkyl, alkenyl, alkynyl, cycloalkyl, haloalkyl, haloalkenyl, haloalkynyl, halo, cyano, alkoxy, haloalkoxy, alkylthio, alkylsulfonyl, trialkylsilyl, etc.; R3 = H, alkyl, haloalkyl, halo, cyano, NO2, alkoxy, haloalkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, haloalkylthio, alkoxycarbonyl, etc.; R4 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl; R5 = H, alkyl, alkenyl, alkynyl, cycloalkyl, haloalkyl, haloalkenyl, haloalkynyl, halocycloalkyl, halo, cyano, CO2H, CONH2, NO2, OH, alkoxy, haloalkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylamino, alkylcarbonyl, alkoxycarbonyl, trialkylsilyl, etc.], were prepared Thus, 1-(3-chloro-2-pyridinyl)-3-trifluoromethyl-1H-pyrazole-5-carboxylic acid (preparation given) was stirred with (COCl)<sub>2</sub> and cat. DMF in CH<sub>2</sub>Cl<sub>2</sub> to give crude acid chloride, which was refluxed 3 h with 8-methyl-2H-3,1-benzoxazine-2,4(1H)-dione (preparation given) and pyridine in MeCN to give 2-[1-(3-chloro-2-pyridinyl)-3-trifluoromethyl-1H-pyrazol-5-yl]-8-methyl-4H-3,1-benzoxazin-4-one. The latter was refluxed 1.5 h with Me<sub>2</sub>CHNH<sub>2</sub> to give 1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[[1-methylethyl]amino]carbonyl]phenyl]-3-trifluoromethyl-1H-pyrazole-5-carboxamide. This was stirred overnight with DBU in MeCN to give N-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[[1-methylethyl]amino]carbonyl]phenyl]-5-trifluoromethyl-1H-pyrazole-3-carboxamide. The latter at 250 ppm on radishes preinfested with *Plutella xylostella* gave ≤10% feeding damage.

IT 68359-37-5, Cyfluthrin 71751-41-2,

Abamectin 91465-08-6, λ -

Cyhalothrin 119791-41-2, Emamectin

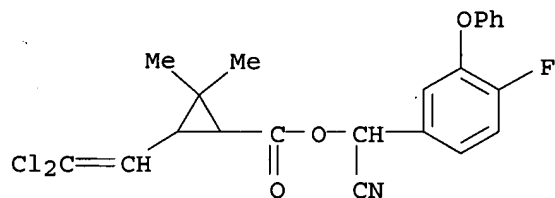
210880-92-5, Clothianidin

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(combined administration; preparation of pyrazolylcarbonyl pyridinyl anthranilamides as arthropodocides)

RN 68359-37-5 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano(4-fluoro-3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



RN 71751-41-2 HCAPLUS

CN Avermectin B1 (9CI) (CA INDEX NAME)

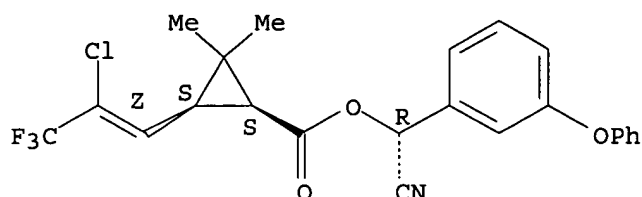
\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 91465-08-6 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-2,2-dimethyl-, (R)-cyano(3-phenoxyphenyl)methyl ester, (1S,3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

Double bond geometry as shown.



RN 119791-41-2 HCAPLUS

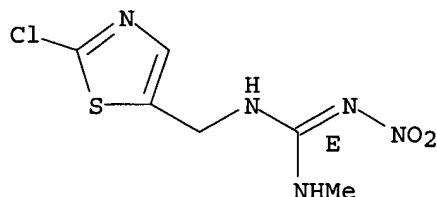
CN Avermectin B1, 4''-deoxy-4''-(methylamino)-, (4''R)- (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 210880-92-5 HCAPLUS

CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-, [C(E)]-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



## RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Du Pont	1992			WO 9212133 A	HCAPLUS
Harrison, C	1995			US 5474998 A	HCAPLUS

L44 ANSWER 7 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2003:261572 HCAPLUS

DN 138:267208

TI Insecticidal compositions containing diamides

IN Lahm, George Philip; Selby, Thomas Paul

PA E. I. Du Pont de Nemours &amp; Co., USA

SO PCT Int. Appl., 246 pp.

CODEN: PIXXD2

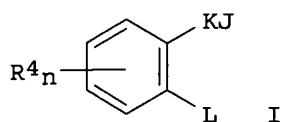
DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2003026415	A2	20030403	WO 2002-US29468	20020917 <--
WO 2003026415	A3	20031030		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,				

FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF,  
 CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
 EP 1427705 A2 20040616 EP 2002-799589 20020917 <--  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK  
 BR 2002012799 A 20040803 BR 2002-12799 20020917 <--  
 CN 1555364 A 20041215 CN 2002-818247 20020917 <--  
 JP 2005504084 T2 20050210 JP 2003-530071 20020917 <--  
 US 2004235959 A1 20041125 US 2004-485096 20040126 <--  
 PRAI US 2001-324083P P 20010921 <--  
 WO 2002-US29468 W 20020917  
 OS MARPAT 138:267208  
 GI

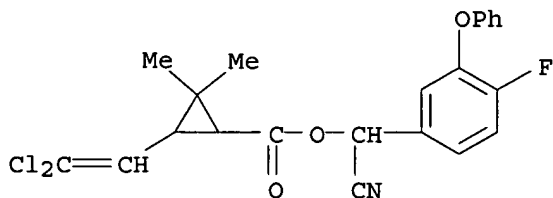


AB Compns. for controlling an invertebrate pest comprise a biol. effective amount of a compound I (Markush included), including all geometric and stereoisomers, N-oxides and agriculturally suitable salts thereof, and may optionally comprise addnl. components selected from the group consisting of surfactants, solid diluents and liquid diluents, and addnl. biol. active compds. or agents selected from the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones,  $\gamma$ -aminobutyric acid (GABA) antagonists, insecticidal ureas, juvenile hormone mimics, and biol. agents. such as *Bacillus thuringiensis*, Bt delta endotoxins, baculoviruses, entomopathogenic bacteria, viruses and fungi.

IT 68359-37-5, Cyfluthrin 71751-41-2,  
 Abamectin 91465-08-6 119791-41-2,  
 Emamectin 210880-92-5, Clothianidin  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
 (in insecticidal compns. containing diamides)

RN 68359-37-5 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano(4-fluoro-3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)

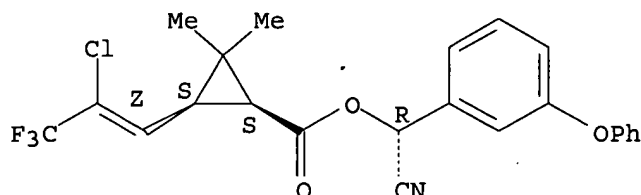


RN 71751-41-2 HCAPLUS  
 CN Avermectin B1 (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
 RN 91465-08-6 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-2,2-dimethyl-, (R)-cyano(3-phenoxyphenyl)methyl ester, (1S,3S)-rel- (9CI)  
(CA INDEX NAME)

Relative stereochemistry.  
Double bond geometry as shown.



RN 119791-41-2 HCAPLUS

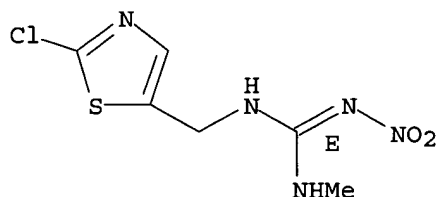
CN Avermectin B1, 4''-deoxy-4''-(methylamino)-, (4''R)- (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 210880-92-5 HCAPLUS

CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-, [C(E)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L44 ANSWER 8 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2003:242097 HCAPLUS

DN 138:267201

TI Pesticidal compositions for coating plant propagation material containing anthranilamides

IN Berger, Richard Alan; Flexner, John Lindsey

PA E. I. Du Pont de Nemours & Co., USA

SO PCT Int. Appl., 147 pp.

CODEN: PIXXD2

DT Patent

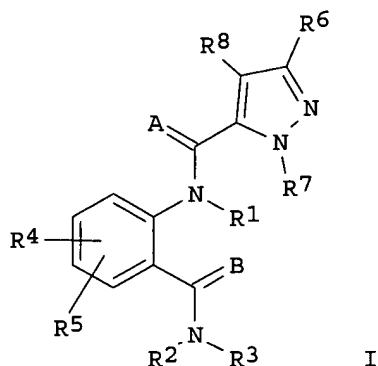
LA English

FAN.CNT 1

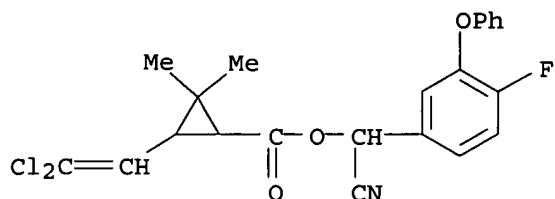
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003024222	A1	20030327	WO 2002-US30302	20020910 <--
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RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,				



FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF,  
 CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
 CA 2458163 AA 20030327 CA 2002-2458163 20020910 <--  
 EP 1427285 A1 20040616 EP 2002-775972 20020910 <--  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK  
 BR 2002012993 A 20040817 BR 2002-12993 20020910 <--  
 JP 2005502716 T2 20050127 JP 2003-528126 20020910 <--  
 ZA 2004000413 A 20050120 ZA 2004-413 20040120 <--  
 US 2004209923 A1 20041021 US 2004-485125 20040126 <--  
 PRAI US 2001-323941P P 20010921 <--  
 WO 2002-US30302 W 20020910  
 OS MARPAT 138:267201  
 GI



- AB An invertebrate pest control composition for coating a propagule comprises (1) a biol. effective amount of an anthranilamide compds. I (Markush included), an N-oxide thereof or an agriculturally suitable salt thereof, and (2) a film former or adhesive agent. Arthropodicidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones,  $\gamma$ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, and fungicides. The propagule is a seed of cotton, maize, soybean, rice, etc., or a rhizome, tuber, bulb or corm, or viable division thereof, of potato, sweet potato, garden onion, tulip, daffodil, crocus hyacinth, etc., or is a stem or leaf cutting.
- IT 68359-37-5, Cyfluthrin 71751-41-2,  
 Abamectin 91465-08-6 119791-41-2,  
 Emamectin 210880-92-5, Clothianidin  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
 (in pesticidal compns. for plant propagation material containing anthranilamides)
- RN 68359-37-5 HCAPLUS
- CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano(4-fluoro-3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)

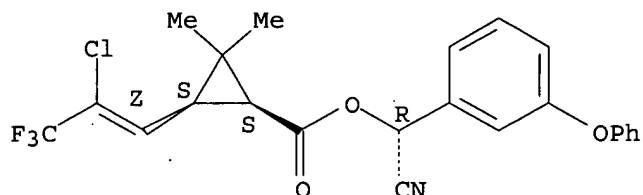


RN 71751-41-2 HCAPLUS  
 CN Avermectin B1 (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 91465-08-6 HCAPLUS  
 CN Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-2,2-dimethyl-, (R)-cyano(3-phenoxyphenyl)methyl ester, (1S,3S)-rel- (9CI)  
 (CA INDEX NAME)

Relative stereochemistry.  
 Double bond geometry as shown.

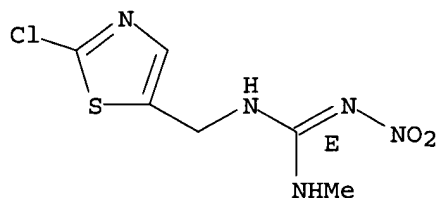


RN 119791-41-2 HCAPLUS  
 CN Avermectin B1, 4'''-deoxy-4'''-(methylamino)-, (4'''R)- (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 210880-92-5 HCAPLUS  
 CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-, [C(E)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



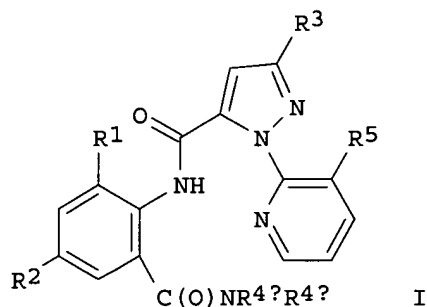
# RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Du Pont	2001			WO 0170671 A	HCAPLUS
Mitsubishi Chem Ind	1988			EP 0289879 A	HCAPLUS

L44 ANSWER 9 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2003:154155 HCAPLUS

DN 138:200332  
 TI Arthropodicidal anthranilamides  
 IN Lahm, George Philip; Selby, Thomas Paul; Stevenson, Thomas Martin  
 PA E. I. Du Pont de Nemours & Co., USA  
 SO PCT Int. Appl., 82 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003015519	A1	20030227	WO 2002-US25615	20020813 <--
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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	EP 1416797	A1	20040512	EP 2002-752811	20020813 <--
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	JP 2004538328	T2	20041224	JP 2003-520290	20020813 <--
	ZA 2003009911	A	20050311	ZA 2003-9911	20031222 <--
	US 2004198984	A1	20041007	US 2004-483168	20040107 <--
	JP 2005041880	A2	20050217	JP 2004-258923	20040906 <--
PRAI	US 2001-311919P	P	20010813	<--	
	US 2001-324128P	P	20010921	<--	
	US 2002-369661P	P	20020402		
	JP 2003-520290	A3	20020813		
	WO 2002-US25615	W	20020813		
OS	MARPAT 138:200332				
GI					



AB Anthranilamides I (Markush included), their N-oxides and agriculturally suitable salts are prepared as arthropodicides for controlling invertebrate pests. Arthropodicidal compns. containing anthranilamides I may further include addnl. biol. active compds. or agents selected from arthropodicides of the group consisting of pyrethroids, carbamates,

neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones,  $\gamma$ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, *Bacillus thuringiensis* sp. aizawai, *B. thuringiensis* sp. kurstaki, *B. thuringiensis* delta endotoxin, baculoviruses, and entomopathogenic bacteria, viruses and fungi.

IT 68359-37-5, Cyfluthrin 71751-41-2,

Abamectin 91465-08-6 119791-41-2,

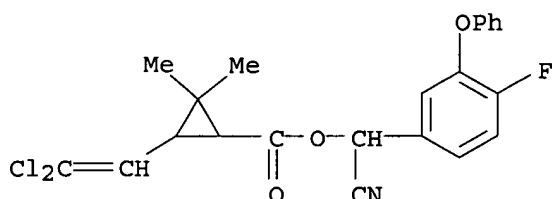
Emamectin 210880-92-5, Clothianidin

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(in arthropodicidal compns. containing anthranilamide)

RN 68359-37-5 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano(4-fluoro-3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



RN 71751-41-2 HCAPLUS

CN Avermectin B1 (9CI) (CA INDEX NAME)

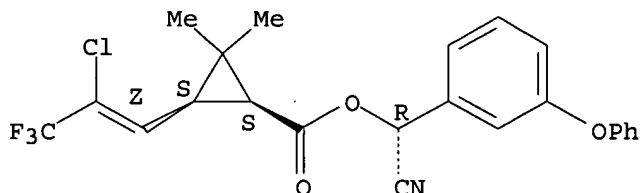
\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 91465-08-6 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-2,2-dimethyl-, (R)-cyano(3-phenoxyphenyl)methyl ester, (1S,3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

Double bond geometry as shown.



RN 119791-41-2 HCAPLUS

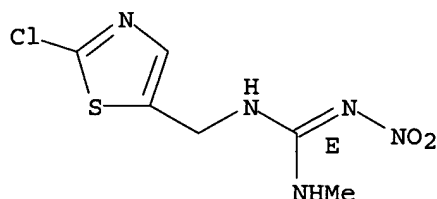
CN Avermectin B1, 4''-deoxy-4''-(methylamino)-, (4''R)- (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 210880-92-5 HCAPLUS

CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-, [C(E)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



## RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Du Pont	2001			WO 0170671 A	HCAPLUS
Du Pont	2002			WO 02070483 A	HCAPLUS
James, M	2002			WO 0248115 A	HCAPLUS
Rijkslandbouwhogeschool	1994			NL 9202078 A	HCAPLUS

L44 ANSWER 10 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2003:154154 HCAPLUS

DN 138:200331

TI Method for controlling particular insect pests by applying anthranilamide compounds

IN Lahm, George Philip; McCann, Stephen Frederick; Patel, Kanu Maganbhai; Selby, Thomas Paul; Stevenson, Thomas Martin

PA E. I. Du Pont de Nemours &amp; Co., USA

SO PCT Int. Appl., 150 pp.

CODEN: PIXXD2

DT Patent

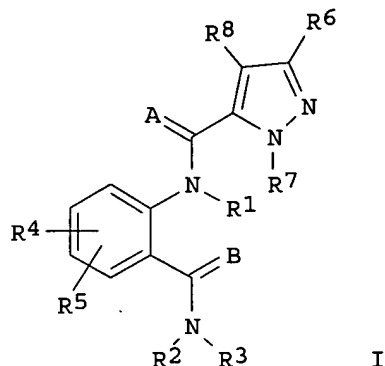
LA English

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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	EP 1416796	A1	20040512	EP 2002-752809	20020813 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
	BR 2002012187	A	20041005	BR 2002-12187	20020813 <--
	CN 1541063	A	20041027	CN 2002-815930	20020813 <--
	JP 2004538327	T2	20041224	JP 2003-520289	20020813 <--
	ZA 2003009911	A	20050311	ZA 2003-9911	20031222 <--
	US 2005075372	A1	20050407	US 2004-483115	20040107 <--
	JP 2005041880	A2	20050217	JP 2004-258923	20040906 <--
PRAI	US 2001-311919P	P	20010813	<--	
	US 2001-324173P	P	20010921	<--	
	US 2001-324128P	P	20010921	<--	
	US 2002-369661P	P	20020402		

JP 2003-520290  
 WO 2002-US25613  
 OS MARPAT 138:200331  
 GI

A3 20020813  
 W 20020813



AB Anthranilamide compds. I (Markush included), N-oxides or an agriculturally suitable salts thereof are prepared as insecticides for controlling lepidopteran, homopteran, hemipteran, thysanopteran and coleopteran insect pests. Insecticidal composition containing anthranilamide compds. I may further

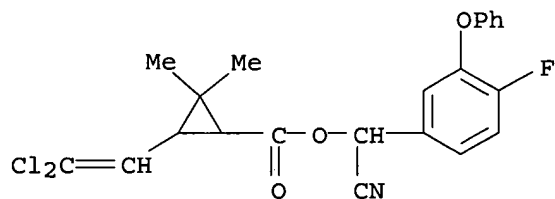
comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones,  $\gamma$ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics.

IT 68359-37-5, Cyfluthrin 71751-41-2,  
 Abamectin 91465-08-6 119791-41-2,  
 Emamectin 210880-92-5, Clothianidin

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
 (in insecticidal compns. containing anthranilamide compds.)

RN 68359-37-5 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano(4-fluoro-3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



RN 71751-41-2 HCAPLUS

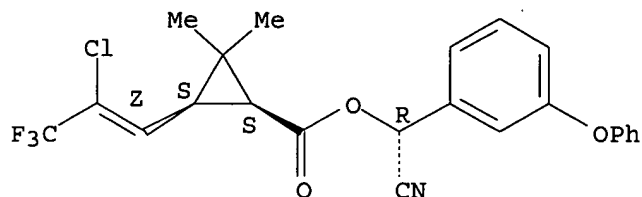
CN Avermectin B1 (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 91465-08-6 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-2,2-dimethyl-, (R)-cyano(3-phenoxyphenyl)methyl ester, (1S,3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.  
Double bond geometry as shown.

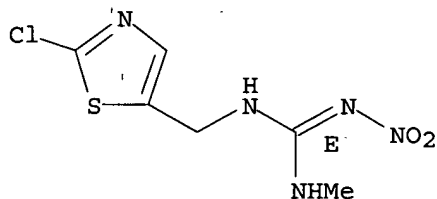


RN 119791-41-2 HCAPLUS  
CN Avermectin B1, 4'''-deoxy-4'''-(methylamino)-, (4'''R)- (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 210880-92-5 HCAPLUS  
CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-, [C(E)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



# RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Du Pont	2001			WO 0170671 A	HCAPLUS
James, M	2002			WO 0248115 A	HCAPLUS
Nissan Chem Ind Ltd	2001			JP 2001019691 A	HCAPLUS
Rijkslandbouwhogeschool	1994			NL 9202078 A	HCAPLUS

L44 ANSWER 11 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:964915 HCAPLUS

DN 138:12164

TI Barrier preventing wood pest access to wooden structures

IN Van Voris, Peter; Cataldo, Dominic A.; Burton, Frederick G.; Leong, Henry;  
Stonich, Derek; Lin, K. C.; McClellan, William D.; Bowdle, Kurt W.

PA USA

SO U.S. Pat. Appl. Publ., 33 pp., Cont.-in-part of U.S. Ser. No. 353,494.  
CODEN: USXXCO

DT Patent

LA English

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002192259	A1	20021219	US 2001-5804	20011203 <--
	US 5985304	A	19991116	US 1998-30690	19980225 <--
	US 6803051	B1	20041012	US 1999-353494	19990713 <--
PRAI	US 1998-30690	A1	19980225	<--	

US 1999-353494 A2 19990713 <--  
 US 2000-251112P P 20001203 <--  
 US 2000-251141P P 20001204 <--

AB A multi-layer wood pest barrier having a prolonged lifetime is given. The lifetime can be as long as the life of a building or structure to be protected. The lifetime protection is achieved by binding at least one pesticide within a continuous or discontinuous polymer matrix layer thereby reducing release of the pesticide from the matrix. The release rate of the pesticide from the matrix can be controlled by the use of a carrier such as carbon black. The release of the pesticide from the barrier can be further controlled by inclusion of addnl. layers which can make the barrier nonreleasing.

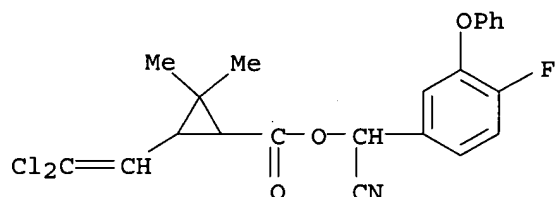
IT 68359-37-5, Cyfluthrin 91465-08-6  
 210880-92-5, Clothianidin

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(in barrier preventing wood pest access to wooden structures)

RN 68359-37-5 HCAPLUS

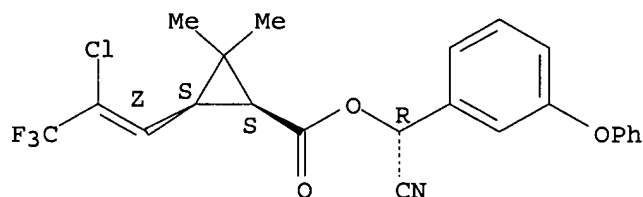
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano(4-fluoro-3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



RN 91465-08-6 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-2,2-dimethyl-, (R)-cyano(3-phenoxyphenyl)methyl ester, (1S,3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.  
 Double bond geometry as shown.

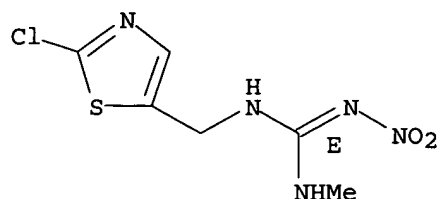


RN 210880-92-5 HCAPLUS

CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-, [C(E)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.





L44 ANSWER 12 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:736579 HCAPLUS

DN 137:228099

TI Polymeric film coatings for seed treatment for controlled release of pesticides

IN Ding, Yiwei; Asrar, Jawed

PA Monsanto Technology LLC, USA

SO U.S. Pat. Appl. Publ., 15 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002134012	A1	20020926	US 2002-79000	20020218 <--
	WO 2002080675	A1	20021017	WO 2002-US4699	20020219 <--
	WO 2002080675	C1	20021121		
	WO 2002080675	C2	20040506		
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	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
	LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,				
	PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,				
	UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,				
	KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB,				
	GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA,				
	GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP	1370136	A1	20031217	EP 2002-724961	20020219 <--
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BR	2002008147	A	20040302	BR 2002-8147	20020219 <--
CN	1498075	A	20040519	CN 2002-807077	20020219 <--
ZA	2003006329	A	20040903	ZA 2003-6329	20030814 <--
PRAI	US 2001-277503P	P	20010321	<--	
	WO 2002-US4699	W	20020219		

AB A method of controlling the release rate of an agricultural active ingredient, such as pesticide, from a seed that has been treated with that active includes providing a seed that has been treated with the active ingredient, applying to the treated seed a film that includes an emulsion of a polymer in a liquid in which both the agricultural active ingredient and the polymer have low levels of solubility, and then curing the film to form a water insol. polymer coating on the surface of the treated seed. The agricultural active ingredient is a pesticide selected from the group consisting of herbicides, insecticides, acaricides, fungicides, nematocides, and bactericides. The seed is the seed of a plant selected from the group consisting of corn, peanut, canola/rapeseed, soybean, cucurbits, cotton, rice, sorghum, sugar beet, wheat, barley, rye, sunflower, tomato, sugarcane, tobacco, oats, vegetables, and leaf crops,

including transgenic crops. The polymer is selected from the group consisting of polyesters, polycarbonates, co-polymers of styrene, and mixts. thereof.

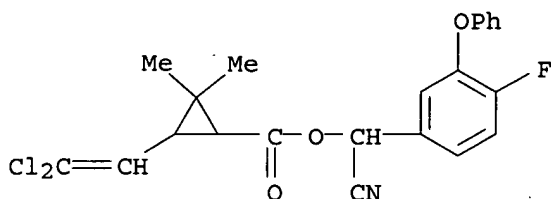
IT 68359-37-5 71751-41-2, Avermectin B1 91465-08-6  
210880-92-5

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(polymeric film coatings for seed treatment for controlled release of)

RN 68359-37-5 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano(4-fluoro-3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



RN 71751-41-2 HCAPLUS

CN Avermectin B1 (9CI) (CA INDEX NAME)

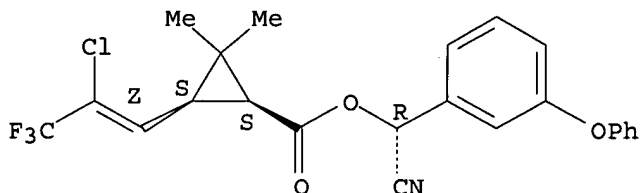
\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 91465-08-6 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-2,2-dimethyl-, (R)-cyano(3-phenoxyphenyl)methyl ester, (1S,3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

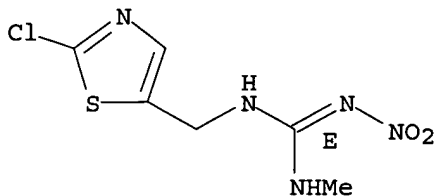
Double bond geometry as shown.



RN 210880-92-5 HCAPLUS

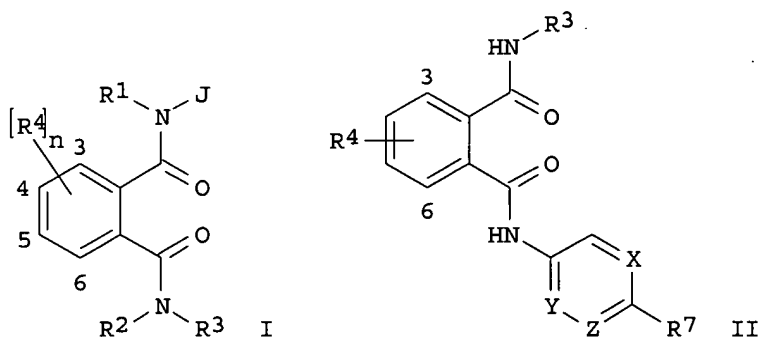
CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-, [C(E)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



AN 2002:465997 HCAPLUS  
 DN 137:47194  
 TI Preparation of substituted heterocyclic phthalic acid diamide  
 arthropodocides  
 IN Lahm, George Philip; Selby, Thomas Paul  
 PA E. I. Du Pont de Nemours & Co., USA  
 SO PCT Int. Appl., 225 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002048137	A2	20020620	WO 2001-US47572	20011205 <--
	WO 2002048137	A3	20030605		
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	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
	LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,				
	PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,				
	US, UZ, VN, YU, ZA, ZW				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,				
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	GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA,				
	GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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	EP 1341780	A2	20030910	EP 2001-990065	20011205 <--
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
	IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
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	US 2004063738	A1	20040401	US 2003-415566	20030430 <--
PRAI	US 2000-254636P	P	20001211	<--	
	US 2001-324012P	P	20010921	<--	
	WO 2001-US47572	W	20011205	<--	
OS	MARPAT 137:47194				
GI					



AB The title compds. [I; J = (un)substituted pyrazolyl, pyridyl, pyrimidyl, etc.; R1 = H, alkyl, alkoxy carbonyl, alkyl carbonyl; R2 = H, alkyl; R3 = H, alkyl, alkenyl, etc.; one R4 is attached to the Ph ring at the 3-position or 6-position, and said R4 = alkyl, haloalkyl, halo, etc.; an optional second R4 = H, alkyl, cycloalkyl, etc.; n = 1-2], useful for controlling

invertebrate pests, were prepared E.g., a multi-step synthesis of 3-iodo-II [R3 = iso-Pr; R4 = 3-I; R7 = OCH2CF3; X = CH; Y = CH; Z = N] and 6-iodo-II [R3 = iso-Pr; R4 = 6-I; R7 = OCH2CF3; X = CH; Y = CH; Z = N], was given. Both compds., 3-iodo-II and 6-iodo-II, were evaluated for control of diamondback moth in a container with radish plant, and both provided excellent levels of plant protection (10% or less feeding damage). Also disclosed are compns. for controlling an invertebrate pest comprising a biol. effective amount of a compound I and methods for controlling an invertebrate pest comprising contacting the invertebrate pest or its environment with a biol. effective amount of a compound I (e.g., as a

composition

described herein).

IT 68359-37-5, Beta-Cyfluthrin 71751-41-2

, Abamectin 91465-08-6 119791-41-2,

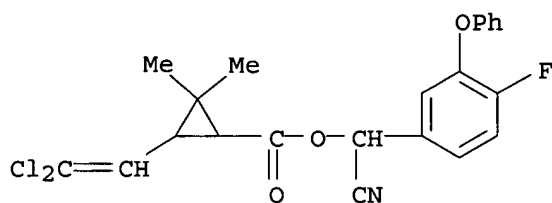
Emamectin 210880-92-5, Clothianidin

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(compns. for controlling invertebrate pests containing; preparation of substituted heterocyclic phthalic acid diamide arthropodocides)

RN 68359-37-5 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano(4-fluoro-3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



RN 71751-41-2 HCAPLUS

CN Avermectin B1 (9CI) (CA INDEX NAME)

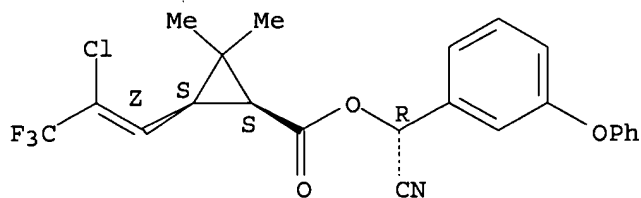
\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 91465-08-6 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-2,2-dimethyl-, (R)-cyano(3-phenoxyphenyl)methyl ester, (1S,3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

Double bond geometry as shown.



RN 119791-41-2 HCAPLUS

CN Avermectin B1, 4''-deoxy-4''-(methylamino)-, (4''R)- (9CI) (CA INDEX NAME)

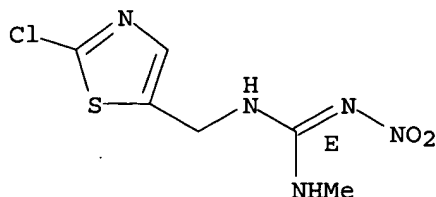
\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 210880-92-5 HCAPLUS

CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-, [C(E)]-

(9CI) (CA INDEX NAME)

Double bond geometry as shown.



L44 ANSWER 14 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:465981 HCAPLUS

DN 137:47212

TI Preparation of quinazolinones and pyridopyrimidinones for controlling invertebrate pests

IN Annis, Gary David; Myers, Brian James; Selby, Thomas Paul; Stevenson, Thomas Martin; Zimmerman, William Thomas

PA E. I. Du Pont de Nemours &amp; Co., USA

SO PCT Int. Appl., 180 pp.

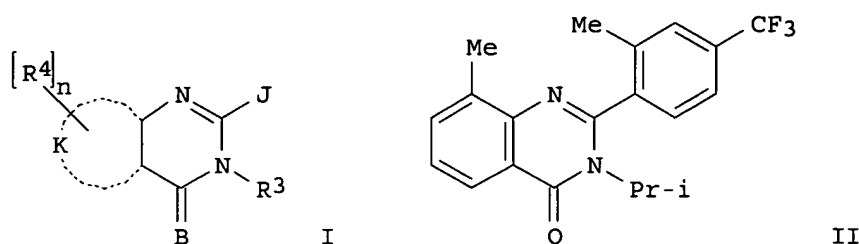
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002048115	A2	20020620	WO 2001-US46629	20011203 <--
	WO 2002048115	A3	20020906		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU	2002027243	A5	20020624	AU 2002-27243	20011203 <--
EP	1341772	A2	20030910	EP 2001-996125	20011203 <--
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP	2004515543	T2	20040527	JP 2002-549646	20011203 <--
US	2004110777	A1	20040610	US 2003-433368	20031014 <--
PRAI	US 2000-254614P	P	20001211	<--	
	WO 2001-US46629	W	20011203	<--	
OS	MARPAT 137:47212				
GI					



AB The title compds. [I; B = O, S; J = (un)substituted Ph, naphthyl, 5-6 membered heteroarom. ring, etc.; K, together with the two contiguous linking carbon atoms = a fused Ph, or fused pyridinyl, each optionally substituted with 1-4 R<sub>4</sub>; R<sub>3</sub> = G, alkyl, cycloalkyl, etc.; G = (un)substituted Ph, 5-6 membered heteroarom. ring, etc.; R<sub>4</sub> = H, alkyl, haloalkyl, etc.; n = 1-4], useful for controlling invertebrate pests, were prepared E.g. a multi-step synthesis of II which provided very good level of plant protection (20% or less feeding damage) in in test on diamondback moth (*Plutella xylostella*)/radish plant, was given. This invention also pertains to certain compds. I and compns. for controlling invertebrate pests comprising a biol. effective amount of a compound I and at least one addnl. component selected from the group consisting of surfactants, solid diluents and liquid diluents.

IT 68359-37-5, **Beta-Cyfluthrin** 71751-41-2

, **Abamectin** 91465-08-6 119791-41-2,

**Emamectin** 210880-92-5, **Clothianidin**

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

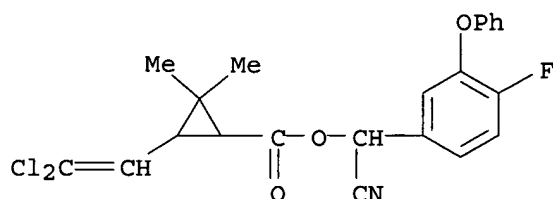
(composition component; preparation of quinazolinones and

pyridopyrimidinones for

controlling invertebrate pests and their use in compns. with other biol. active compds.)

RN 68359-37-5 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano(4-fluoro-3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



RN 71751-41-2 HCAPLUS

CN Avermectin B1 (9CI) (CA INDEX NAME)

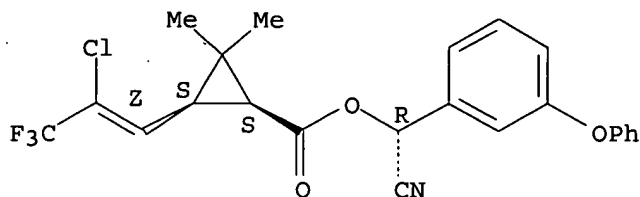
\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 91465-08-6 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-2,2-dimethyl-, (R)-cyano(3-phenoxyphenyl)methyl ester, (1S,3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

Double bond geometry as shown.



RN 119791-41-2 HCAPLUS

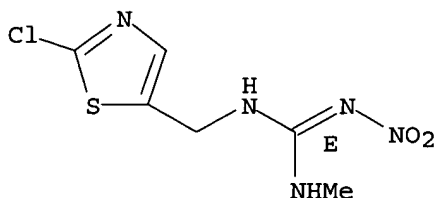
CN Avermectin B1, 4''-deoxy-4''-(methylamino)-, (4''R)- (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 210880-92-5 HCAPLUS

CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-, [C(E)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L44 ANSWER 15 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:428627 HCAPLUS

DN 137:1951

TI Synergistic insecticidal and acaricidal compns. containing neem extract

IN Baron, Gerhard; Kilian, Michael; Rosenfeldt, Frank

PA Bayer Aktiengesellschaft, Germany

SO PCT Int. Appl., 22 pp.

CODEN: PIXXD2

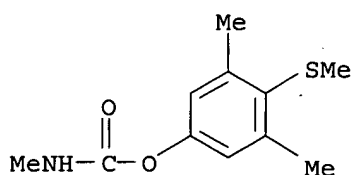
DT Patent

LA German

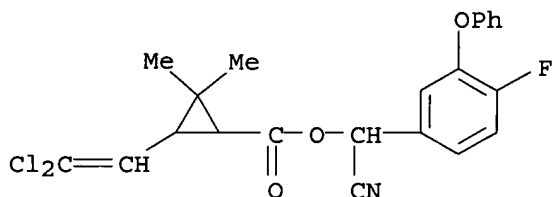
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002043496	A2	20020606	WO 2001-EP13340	20011119 <--
WO 2002043496	A3	20020829		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 10059606	A1	20020606	DE 2000-10059606	20001201 <--
AU 2002018304	A5	20020611	AU 2002-18304	20011119 <--
EP 1339288	A2	20030903	EP 2001-998148	20011119 <--
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
US 2004052878	A1	20040318	US 2003-432979	20031003 <--

PRAI DE 2000-10059606 A 20001201 <--  
 WO 2001-EP13340 W 20011119 <--  
 AB The title compns. comprise neem seed extract and any of 35 known insecticides and acaricides.  
 IT 2032-65-7D, **Methiocarb**, mixture with neem extract  
 68359-37-5D, **Cyfluthrin**, mixture with neem extract  
 71751-41-2D, **Abamectin**, mixture with neem extract  
 91465-08-6D, **Lambda-cyhalothrin**, mixture with neem extract  
 210880-92-5D, **Clothianidin**, mixture with neem extract  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic insecticidal and acaricidal composition)  
 RN 2032-65-7 HCAPLUS  
 CN Phenol, 3,5-dimethyl-4-(methylthio)-, methylcarbamate (9CI) (CA INDEX NAME)



RN 68359-37-5 HCAPLUS  
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano(4-fluoro-3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)

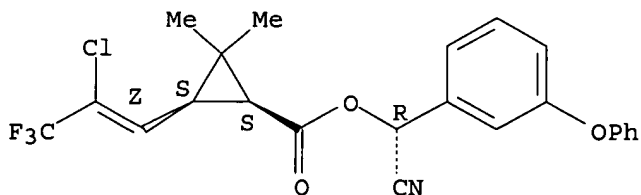


RN 71751-41-2 HCAPLUS  
 CN Avermectin B1 (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 91465-08-6 HCAPLUS  
 CN Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-2,2-dimethyl-, (R)-cyano(3-phenoxyphenyl)methyl ester, (1S,3S)-rel- (9CI) (CA INDEX NAME)

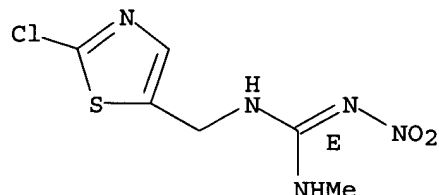
Relative stereochemistry.  
 Double bond geometry as shown.





RN 210880-92-5 HCAPLUS  
 CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-, [C(E)]-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



L44 ANSWER 16 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:368234 HCAPLUS

DN 136:381765

TI Synergistic pesticidal compositions comprising N-cyanomethyl-4-(trifluoromethyl)nicotinamide

IN Angst, Max; Rindlisbacher, Alfred; Maienfisch, Peter

PA Syngenta Participations A.-G., Switz.

SO PCT Int. Appl., 30 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002037964	A1	20020516	WO 2001-EP12947	20011108 <--
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	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002014045	A5	20020521	AU 2002-14045	20011108 <--
PRAI	CH 2000-2189	A	20001110	<--	
	WO 2001-EP12947	W	20011108	<--	

AB Synergistic compns. for controlling insects or representatives of the order Acarina comprise a combination of variable quantities of N-Cyanomethyl-4-trifluoromethyl-3-pyridinecarboxamide (IKI-220) in free form or in salt form, if appropriate tautomers, in free form or in salt form, and one or more of the compds., such as, for example: **abamectin**, azamethiphos, bromopropylate, chlorfenvinphos, cypermethrin, cypermethrin high-cis, cyromazin, diafenthiuron, diazinon, dicrotophos, dicyclanil, **emamectin**, fenoxycarb, lufenuron, methidathion, monocrotophos, profenofos, pymetrozine, tau-fluvalinate, thiamethoxam, azoxystrobin, bensultap, chlorothalonil, fenpyroximate, fluazinam, flufenprox, flutriafol, **lambda-cyhalothrin**, phosmet, picoxystrobin, primicarb, pyridaben, tefluthrin, etc. The compns. are used for controlling pests by applying to the pests or their environment, or for protecting plant propagation material, wherein the propagation material or the site of application of the propagation material is treated.

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
=====	=====	=====	=====	=====	=====
Anon	1998	1998		PATENT ABSTRACTS OF	
Erdelen, C	2001			WO 0176369 A	HCAPLUS
Ishihara Sangyo Kaisha	1994			EP 0580374 A	HCAPLUS
Ishihara Sangyo Kaisha	1997			JP 09323973 A	HCAPLUS

L44 ANSWER 17 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:314898 HCAPLUS

DN 136:320814

TI Insecticidal 1,8-naphthalenedicarboxamides and their preparation, use, and compositions

IN Selby, Thomas Paul; Sun, King-Mo

PA E. I. Du Pont de Nemours & Co., USA

SO PCT Int. Appl., 110 pp.

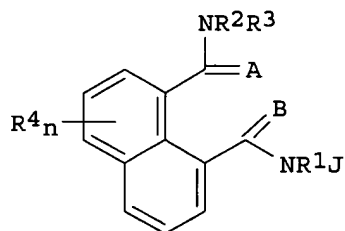
CODEN: PIXXD2

DT Patent

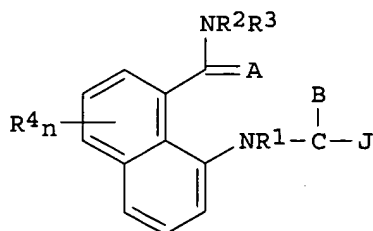
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2002032856	A2	20020425	WO 2001-US42632	20011011 <--
	WO 2002032856	A3	20020704		
	WO 2002032856	C2	20040408		
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU	2002030401	A5	20020429	AU 2002-30401	20011011 <--
EP	1326827	A2	20030716	EP 2001-987739	20011011 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP	2004511538	T2	20040415	JP 2002-536040	20011011 <--
BR	2001007384	A	20020924	BR 2001-7384	20020924 <--
US	2004053786	A1	20040318	US 2003-398638	20030404 <--
PRAI	US 2000-240890P	P	20001017	<--	
	US 2001-323833P	P	20010921	<--	
	WO 2001-US42632	W	20011011	<--	
OS	MARPAT 136:320814				
GI					



I



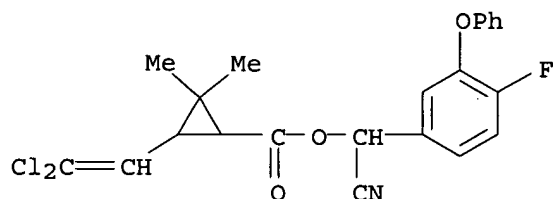
II

AB Compds. I and II (Markush included) are prepared as insecticides. The compds. I and II and their N-oxides and agriculturally suitable salts are useful for controlling invertebrate pests in compns. comprising at least one of a surfactant, a solid diluent or a liquid diluent, and, optionally, at least one addnl. biol. active compound or agent selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones,  $\gamma$ -aminobutyric acid (GABA) antagonist,s insecticidal urea,s and juvenile hormone mimics.

IT 68359-37-5, **Cyfluthrin** 71751-41-2,  
**Abamectin** 91465-08-6 119791-41-2,  
**Emamectin** 210880-92-5, **Clothianidin**  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (in compns. with insecticidal 1,8-naphthalenedicarboxamides)

RN 68359-37-5 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano(4-fluoro-3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



RN 71751-41-2 HCAPLUS

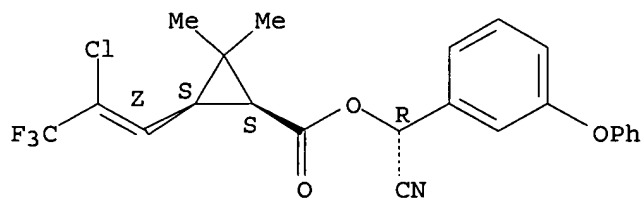
CN Avermectin B1 (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 91465-08-6 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-2,2-dimethyl-, (R)-cyano(3-phenoxyphenyl)methyl ester, (1S,3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.  
 Double bond geometry as shown.



RN 119791-41-2 HCAPLUS

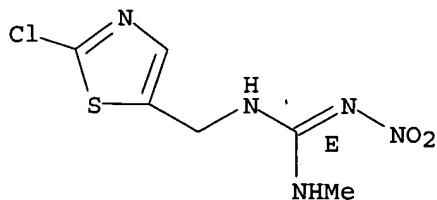
CN Avermectin B1, 4''-deoxy-4''-(methylamino)-, (4''R)- (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 210880-92-5 HCAPLUS

CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-, [C(E)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L44 ANSWER 18 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:286656 HCAPLUS

DN 136:305521

TI Simultaneous application of pesticides to rice paddies

IN Uchikurohashi, Toru; Tashima, Takayoshi; Yamamoto, Yoshinobu; Otsuka, Takashi; Yamaguchi, Rikio; Imano, Takamichi

PA Nihon Nohyaku Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002114612	A2	20020416	JP 2000-307632	20001006 <--
PRAI	JP 2000-307632		20001006	<--	

AB A microbicide, a herbicide, and an insecticide are simultaneously applied to a flooded rice paddy, and this simultaneous application decreased the number of pesticide applications in the growing season of the rice. For example, the 3 pesticides are antimicrobial N-(3-chloro-4-methylphenyl)-4-methyl-1,2,3-thiadiazole-5-carboxamide, a pyrethroid insecticide, and a sulfonylurea-type herbicide.

IT 71751-41-2, Abamectin 155569-91-8,

Emamectin benzoate 210880-92-5,

Clothianidin

RL: AGR (Agricultural use); BCP (Biochemical process); BIOL (Biological study); PROC (Process); USES (Uses)

(simultaneous application of microbicide, herbicide, and insecticide to rice paddies)

RN 71751-41-2 HCAPLUS

CN Avermectin B1 (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 155569-91-8 HCAPLUS

CN Avermectin B1, 4''-deoxy-4''-(methylamino)-, (4''R)-, benzoate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 119791-41-2

CMF Unspecified

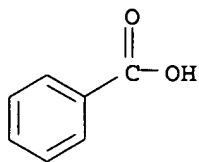
CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

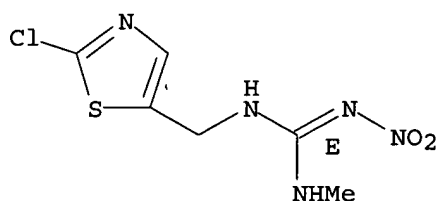
CRN 65-85-0

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RN 210880-92-5 HCAPLUS  
 CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-, [C(E)]-(9CI) (CA INDEX NAME)

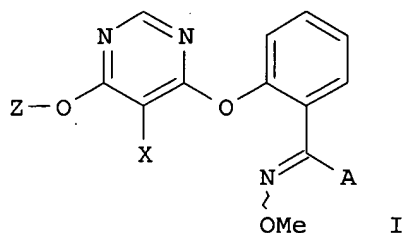
Double bond geometry as shown.



L44 ANSWER 19 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2000:349202 HCAPLUS  
 DN 132:344443  
 TI Synergistic fungicidal compositions.  
 IN Mauler-Machnik, Astrid; Wachendorf-Neumann, Ulrike; Gayer, Herbert  
 PA Bayer A.-G., Germany  
 SO Ger. Offen., 18 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19939841	A1	20000525	DE 1999-19939841	19990823 <--
	CA 2351500	AA	20000602	CA 1999-2351500	19991108 <--
	WO 2000030440	A2	20000602	WO 1999-EP8558	19991108 <--
	WO 2000030440	A3	20000831		
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	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
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	AU 752441	B2	20020919		
	BR 9915518	A	20010717	BR 1999-15518	19991108 <--
	EP 1130963	A2	20010912	EP 1999-953975	19991108 <--
	EP 1130963	B1	20050302		
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TR 200101379	T2	20011121	TR 2001-200101379	19991108 <--
TR 200103810	T2	20020621	TR 2001-200103810	19991108 <--
TR 200103811	T2	20020621	TR 2001-200103811	19991108 <--
JP 2002530297	T2	20020917	JP 2000-583338	19991108 <--
EP 1506711	A2	20050216	EP 2004-24463	19991108 <--
EP 1506711	A3	20050427		
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TW 521994	B	20030301	TW 1999-88119807	19991115 <--
US 6559136	B1	20030506	US 2001-856023	20010516 <--
US 2003161896	A1	20030828	US 2003-371770	20030221 <--
PRAI DE 1998-19853559	A1	19981120	<--	
DE 1999-19939841	A	19990823	<--	
EP 1999-953975	A3	19991108	<--	
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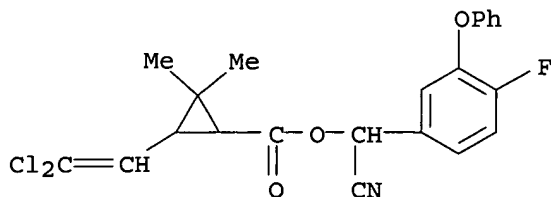
AB The title compns. comprise the pyrimidine derivs. I [Z = (un)substituted Ph; X = halo; A = heterocyclyl, CO<sub>2</sub>Me or CHNHMe] and any of a large number of known fungicides.

IT **68359-37-5D, Cyfluthrin**, mixts. with pyrimidine derivs.  
**210880-92-5D, Clothianidin**, mixts. with pyrimidine derivs.

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicidal compns.)

RN 68359-37-5 HCAPLUS

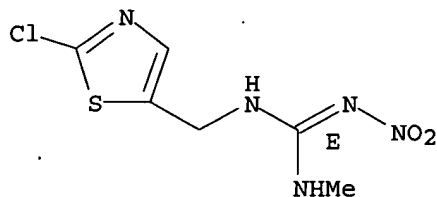
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano(4-fluoro-3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



RN 210880-92-5 HCAPLUS

CN Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitro-, [C(E)]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



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SET COST OFF

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L7      5 S (ABAMECTIN OR EMAMECTIN OR EMAMECTIN BENZOATE OR METHIOCARB O
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L8      25 S E3
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        SEL RN L7
L10     403 S E1-E5/CRN
L11     5 S L6 AND L10
L12     119 S L6 AND C6H8CLN5O2S
L13     6 S L12 AND 1/NC
        SEL RN 1 2 5
L14     3 S L13 NOT E6-E8
L15     1 S CLOTHIANIDIN/CN
L16     54 S 210880-92-5/CRN
L17     5 S L10 AND L16
L18     5 S L11,L17

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FILE 'HCAOLD' ENTERED AT 15:19:49 ON 15 AUG 2005

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L19     0 S L18

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FILE 'HCAPLUS' ENTERED AT 15:19:55 ON 15 AUG 2005

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L22     129 S CLOTHIANIDIN?
L23     4222 S L7,L21
L24     144 S L15,L22
L25     39 S L23 AND L24
L26     2 S L25 AND L20

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FILE 'REGISTRY' ENTERED AT 15:22:30 ON 15 AUG 2005

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L27     1 S 68359-37-5
L28     111 S 68359-37-5/CRN
L29     1 S L28 AND L16

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FILE 'HCAOLD' ENTERED AT 15:23:22 ON 15 AUG 2005

jan delaval - 15 august 2005

L30 0 S L29

FILE 'HCAPLUS' ENTERED AT 15:23:23 ON 15 AUG 2005

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L35 2 S L32 AND L34  
E ANDERSCH W/AU  
L36 78 S E3,E5  
E ERDELEN C/AU  
L37 310 S E3,E4,E7-E11  
E LUBOS ERDELEN A/AU  
E LUBOS A/AU  
E ERDELEN A/AU  
E JESCHKE P/AU  
L38 199 S E3,E4  
L39 1 S L36-L38 AND L35  
L40 1 S L36-L38 AND L34  
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L45 0 S L29 OR L18

FILE 'REGISTRY' ENTERED AT 15:27:31 ON 15 AUG 2005

L46 6 S L18 OR L29

FILE 'HCAPLUS' ENTERED AT 15:28:01 ON 15 AUG 2005

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